



## Tropical Storm Harvey 2017 9/2/2017 – 1700 CDT Update

### TEXAS

#### ARKEMA FIRE

As of 8:00 am on September 2, 2017, three trailers reacted and caught fire at the Arkema facility. One fire occurred on August 31, 2017 and the second occurred on September 1, 2017. During the fire on September 1, 2017, EPA's ground air monitoring results outside of the exclusion zone were approximately 0.3 parts per million (ppm), below levels of health concern. The fire subsided by 6:30 pm and by 7:30 pm.

#### Additional Updates:

- Unified Command has determined that access to the facility is still unsafe and a 1.5-mile evacuation radius will remain in effect until further notice.
- Aerial reconnaissance photos indicate that flood waters within the facility have receded significantly.
- At the request of the local jurisdiction and Harris County Pollution Control, EPA collected surface water runoff samples downstream of the facility at 4 locations near a residential area. The samples are being analyzed by EPA's mobile laboratory.
- EPA will continue to maintain a 24-hr presence with air monitoring capabilities at the incident command operations center.
- Unified Command at the Arkema site continue to coordinate with the EPA Region 6 Environmental Unit to determine locations on the site where flood water samples should be collected.

The Arkema Group consists of one team. The team composition is currently set at 2 personnel from the EPA. The Arkema Group's primary purpose is to assess and monitor conditions at the Arkema facility in Crosby, Texas.

#### BEAUMONT

The City of Beaumont's water system anticipates being at half capacity, ten million gallons per day, by noon September 2, 2017. The elevated storage tanks and groundwater tanks are mostly full and are currently valved-off until the system is brought back online. The City of

Beaumont will be on a boil water notice when it goes on-line. EPA is maintaining contact with TECQ and will provide assistance as requested.

The City has their Emergency Operations Center (EOC) fully functional and is coordinating efforts to make repairs and acquire chemicals and materials for both short-term and long-term.

TCEQ will be sending four teams deployed to survey the area. Water pressure in the city of Beaumont water system is increasing; however, due to the previous low pressure in the system the city continues to be under a boil water notice.

## **PORT ARTHUR**

As of September 2, 2017, the USCG Port Arthur has begun to shift from search and recovery to marine environmental response. A mobile command post has been established. USCG teams are conducting shoreline assessments.

air monitoring for a natural gas pipeline leak last night. It has since been secured

## **FIELD RESPONSE ACTIVITIES**

### **LOUISIANA**

As of 6:00 pm on September 2, 2017, the Louisiana State Emergency Operations Center (EOC) will no longer be fully activated. Only those agencies dealing with sheltering will be required to remain at the EOC. All other agencies are to remain on standby.

### **CORPUS CHRISTI**

On September 1, 2017, EPA deployed two container recovery teams to collect orphaned containers where hazard evaluations have been completed. Six oil discharge assessment teams consisting of US Coast Guard and Texas General Land Office are conducting reconnaissance in the area. Four TCEQ water infrastructure teams are conducting drinking water and waste water assessments. Two teams are conducting air reconnaissance via helicopters.

In Alpha Branch the Orphan Container Recovery Group consisting of four teams, conducted orphan container recovery in Port Aransas. Containers which have been displaced and are leaking as a result of the hurricane are being identified and recovered utilizing the NDOW Orphan Container Hazard Evaluation SOP and documented using Response Manager. Teams 1 and 2 currently consist of TCEQ, CST and a TCEQ contractor. Team 3 is a special Ops team which is recovering orphan containers with a high degree of hazard associated with them. Team 3 is comprised of EPA, USCG and an EPA ERRS. Team 4 is a strike team which is investigating Hurricane Harvey related NRC, State and Local Reports. Team 4 Consists of EPA and an EPA ERRS.

The Water Infrastructure Assessment Group consists of four teams who are conducting assessments for both Drinking Water and Waste Water Facilities. Teams are prioritizing facilities, and conducting evaluation of these facilities. Teams are utilizing the NDOW Water Infrastructure Evaluation SOP and documenting target utilizing Response Manager. Teams 1 and 2 consist of TCEQ personnel and Teams 3 and 4 consist TCEQ and CST personnel.

The Hazard Evaluation Group consists of two teams performing orphan container hazard evaluation. Teams are prioritizing Rapid Needs Assessment Targets and conducting evaluation of the targets. Teams are utilizing the NDOW Orphan Container Hazard Evaluation SOP and documenting targets utilizing Response Manager. Teams consist of TCEQ and CST personnel.

The Oil Discharge Assessment Group consists of 5 teams. Three ER Teams respond to reports of active pollution discharges and conduct patrols as tasked. There are two Oil Discharge Assessment Teams conducting assessments and responding to spills from Port Aransas to Corpus Christi and from Fulton to Ingleside. All teams are conducting hazard evaluation and damage assessment, and collecting information on damaged and sunken vessels and populating Response Manager.

There is also a Staging Group that is receiving, processing, categorizing, bulking and disposing of any and hazardous containers.

ASPECT is assessing Department of Homeland Security (DHS) critical infrastructure (e.g. public water supplies and wastewater treatment facilities), Risk Management Plan (RMP) and Facility Response Plan (FRP) facilities for damage and immediate ongoing releases.

**Table 2. Drinking Water and Waste Water Assessments Performed on 9/1/2017**

Status of Facility with On-Site Visit	# of Facilities
Loss of Power Not on Generator	2
On Generator Power	3
Inoperable	4
Operating	1
Out of Contact (No Response)	2

## HOUSTON

Teams from the Houston Branch performed reconnaissance including 28 hazard evaluations and oil discharge assessments. This information will be prioritized for additional follow-up. On Saturday, September 2, 2017, EPA will send four additional Drinking Water/Wastewater Assessment Teams to Corpus Christi, and four Drinking Water/Wastewater Assessment Teams to Houston.

On September 1, 2017, the Department of Transportation (DOT), Pipeline and Hazardous

Materials Safety Administration (PHMSA) issued a waiver of hazardous materials regulations. The waiver applies to persons conducting operations under the direction of EPA Region 6 within the Hurricane and Tropical Storm disaster and emergency areas of Texas and Louisiana. The waiver is granted to support EPA in taking appropriate actions to prepare for, respond to, and recover from Hurricane and Tropical Storm Harvey.

Aerial Recon teams are being formed for the next operational period. It is anticipated these teams will be placed in Bravo Branch.

The Orphan Container Hazard Evaluation Group consists of 7 teams. Team compositions include personnel from the EPA, USCG, TCEQ, TGLO, and CTEH. The group's primary purpose is to conduct orphan container hazard evaluation throughout Branch Bravo's geographical area. The targets are being evaluated via the NDOW orphan container hazard evaluation SOP and documented within Response Manager.

The NRC/Investigation Group consists of one team. The team composition is currently two EPA members. The group's primary purpose is to investigate any NRC reports within the Branch Bravo's geographical area.

The Oil Discharge Assessment Group consists of 5 teams. Each team has three members and includes personnel from the EPA, USCG, TCEQ, and CTEH. The group's primary purpose is to conduct oil discharge assessments throughout Branch Bravo's geographical area. The targets are being evaluated via the NDOW Facility/Vessel Oil Discharge Assessment SOP and documented within Response Manager.

The Orphan Container Recovery Group consists of 2 teams. Each team has three members and includes personnel from USCG, TCEQ, and an OSRO. The group's primary purpose is to conduct orphan container recovery throughout Branch Bravo's geographic area. If not recovery already documented targets, the Orphan Container Recovery Group will utilize the NDOW Orphan Container Hazard Evaluation SOP and document targets within Response Manager accordingly.

Table One. Hazard Evaluation Summary as of 11:00

Status	Alpha Total Count	Bravo Total Count	NRC Total Count
Access Denied (Open)	0	0	0
Assessment Required (Open)	11	20	2
Item Recovered (Closed)	21	0	0
Leave in Place (Closed)	3	4	0
Leave in Place (Open)	0	6	0
Recovery Required (Open)	18	18	1
Refer to Other Agency, no EPA needed (Closed)	1	1	0
Refer to Other Agency (Open)	1	0	0
Special Operations (Open)	0	0	0

Table Two. Release/Discharge Summary as of 11:00

Status	Alpha Total Count	Bravo Total Count	NRC Total Count
Access Denied (Open)	2	2	0
Assessment Required (Open)	538	23	16
Clean Up Completed (Closed)	4	0	5
Clean Up in Progress (Open)	5	11	10
Discharge Identified Clean Up Not Initiated (Open)	19	8	10
No pollution Threat (Closed)	54	2	1
Refer to Other Agency (Open)	3	0	0

Table Three. Drinking Water Treatment Facility Assessment Status as of 11:00

Drinking Water Facility Assessment Status	# of Contact on 9/2/17	Cumulative
Clear	0	66
Destroyed	0	2
Operating on Generator Power	0	32
Inoperable	0	137
Loss of Power - No Generator	0	89
Operating	88	1555
Out of Contact	0	108
Results of Testing Pending	0	25
Unknown	0	292

Table Four. Waste Water Treatment Facility Assessment Status as of 11:00

Waste Water Facility Assessment Status	# of Contact on 9/2/17	Cumulative
Inoperable	1	53
Operating	6	1726
Operating on Generator Power	0	41
Partial Operations	1	39
Needs Site Visit	0	2
Out of Contact (No Response)	0	35
Unknown	13	112

## SPILL/RELEASE RESPONSE

Hotline Calls as of September 1, 2017	
Number of Harvey Related Calls Received During Reporting Period 1300 to 0100 hr.	13
Total Number of Harvey Related Calls to Date	115
* EPA is assessing each call to determine appropriate response and forwarding reports to field personnel to conduct further assessments and response as needed.	

## DRINKING WATER / WASTEWATER ASSESSMENTS

EPA continues to support TCEQ in contacting drinking water and waste water systems. EPA deployed 10 personnel to assist TCEQ's Drinking Water and Waste Water Phone Bank located in Austin.

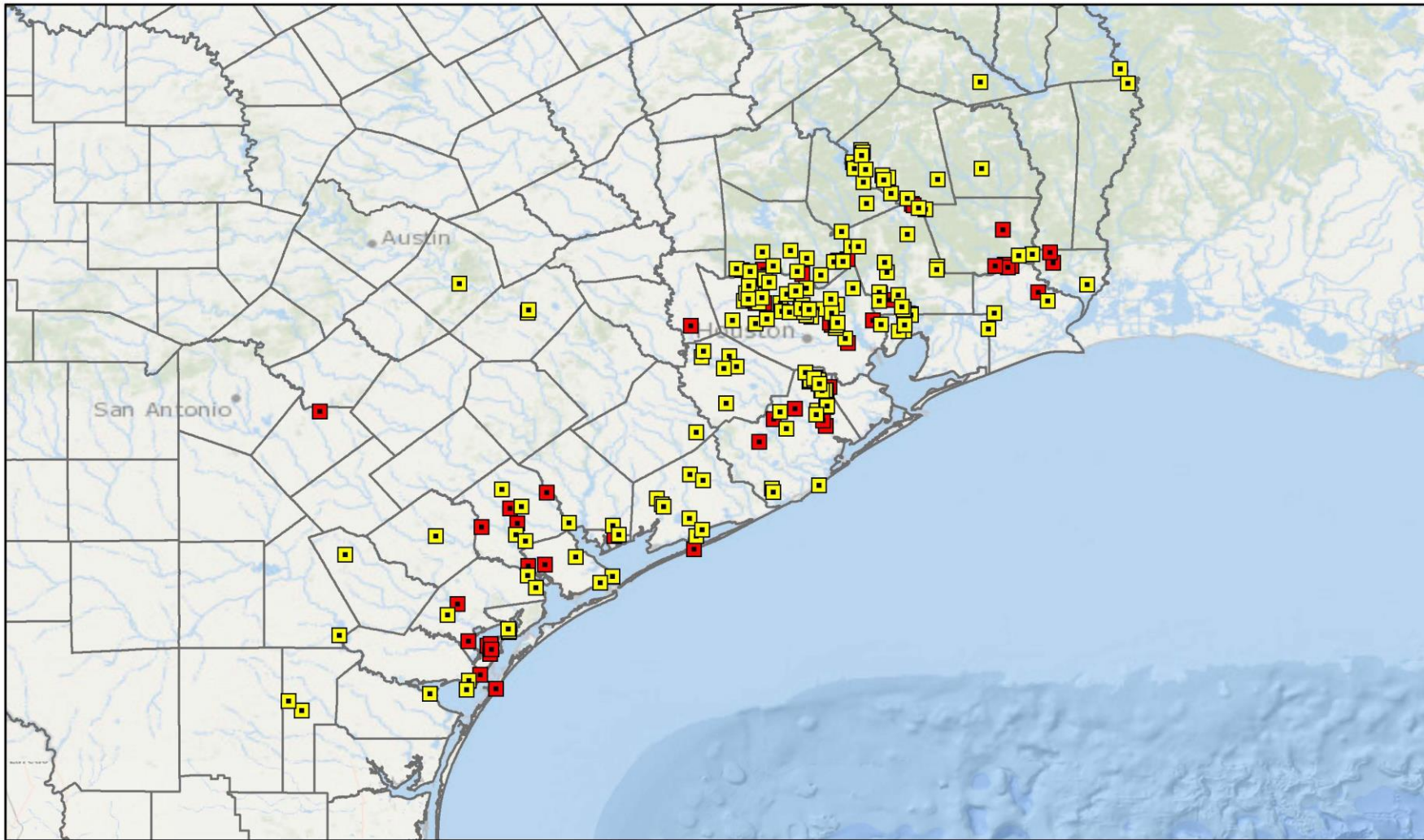
### **DW - Total # of Systems: 4512**

STATUS	NUMBER OF SYSTEMS
Contact Pending	159
Bacteria Sample Results Pending	16
Out of Contact	16
On Generator – Lost Pressure	14
No problems	1435
On Generator – Never Lost Pressure	16
No Status	2680
Lost pressure & or Treatment	61
Lifted boil water notice due to negative bacteria samples. Normal Ops resumed	63
System Destroyed	2
Not Operating	50



**WW - Total # of Systems: 2469**

STATUS	NUMBER OF SYSTEMS
No Problems	1626
System Destroyed	2
Unknown	678
Waste Water Treat. Plant and/or Collection on Generator or bypass pumps for Lift Station	30
Waste Water Treat. Plant and/or Collection non operational no Sanitary Sewer Overflow	35
WWTP and/or Collection Partially Operational Sanitary Sewer Overflow	32
Site Visit Needed	1
Out of Contact - phone evaluation only	14
Contact Pending - Phone evaluation only	51



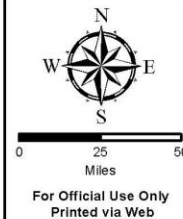


## Legend

-  Boiled Water Notices (173)
-  Water Outage (49)

US EPA Region 6

## Drinking Water Status Map 09/02/2017 - 0100

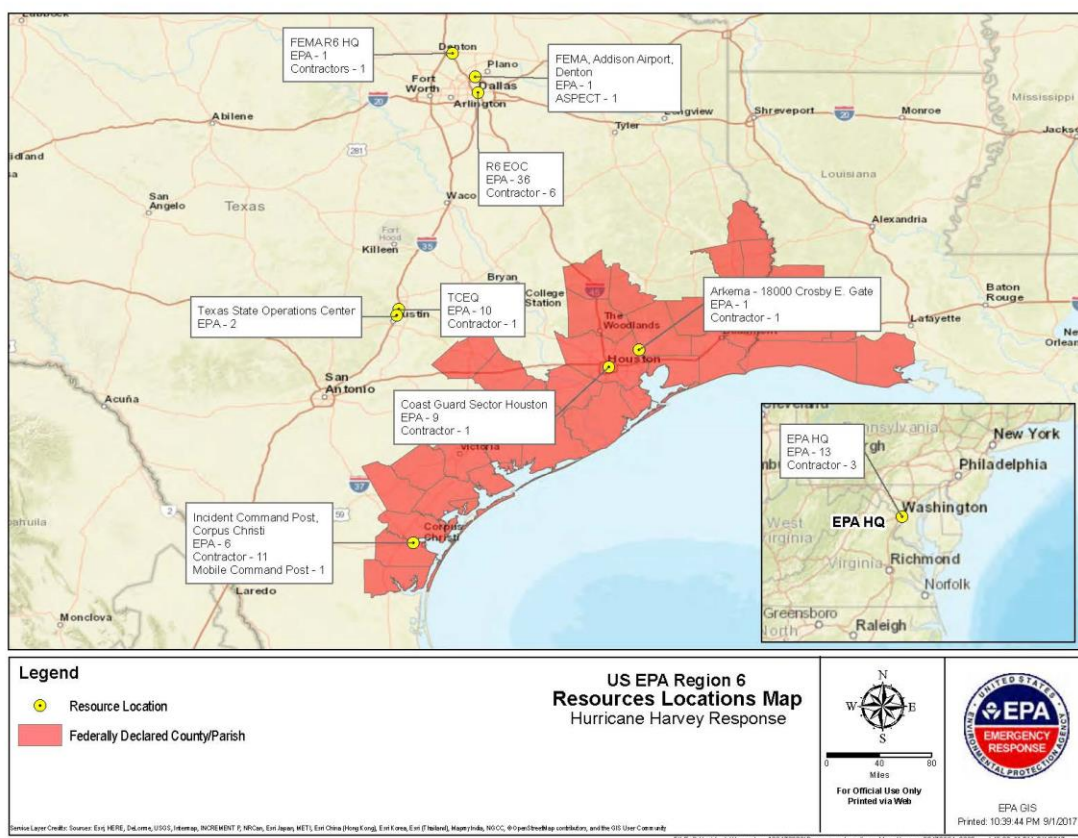


EPA GIS  
Printed: 2:35:09 AM 9/2/2017



## RESOURCES

Personnel	EPA Dallas, TX	FEMA Denton, TX	Texas SOC Austin, TX	TCEQ Austin, TX	Houston, TX	Corpus Christi, TX	HQ EOC Wash DC	Totals
EPA	36	1	2	10	9	13	13	84
START	5			1	1	5		12
ERRS						6		6
Other Contractors	1						3	4
TOTAL	42	1	2	11	10	24	16	106



## FUNDING

SEPTEMBER 1, 2017

Funding Sources	Funding Ceiling	Funding Ceiling Less Indirect	Spent to Date	Remaining Balance	Daily Burn Rate
Non Mission Assignment	N/A		\$64,200.00	\$0.00	
MA 4332DR-TX-EPA-01	\$20,000.00	\$17,654.00	\$0.00	\$17,654.00	
MA 4332DR-TX-EPA-03	\$8,592,000.00	\$7,584,077.00	\$1,759,127.00	\$5,824,950.00	\$90,233.84*
Totals:	\$8,612,000.00	\$7,601,731.00		\$7,601,731.00	

\*Burn rate does not include daily ERRS amounts, not yet received. The burn does include START & ASPECT

\*\* Indirect costs represent the money the Cincinnati Shared Service Center takes off the top to manage the Mission Assignments

## LABORATORY/ ANALYTICAL SERVICES

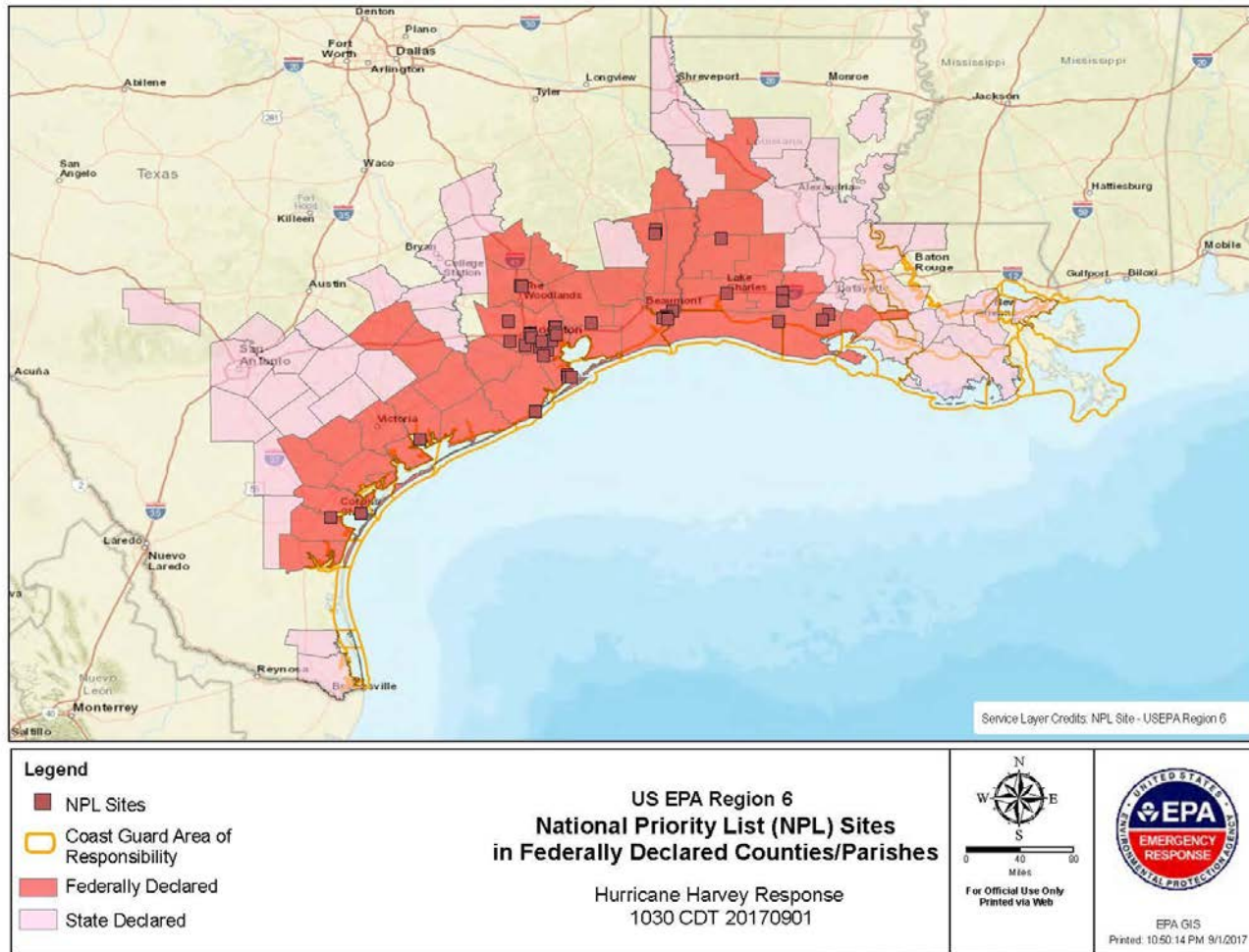
EPA's organic chemical mobile laboratory arrived in Houston, Texas on August 31, 2017. The mobile laboratory can be utilized to process environmental samples.

## REFINERIES/FUEL WAIVERS

1. TEXAS: EPA approved the State of Texas' request to extend the Texas fuel waiver to allow use of non-road diesel fuel in on-road applications. This non-road fuel has different tax treatment, and to differentiate it, is colored with red dye. The Internal Revenue Service (IRS) issued a waiver of the dyed diesel fuel penalty through September 15, 2017. The IRS will not impose a penalty when dyed diesel fuel is sold for use or used on the highway.
2. LOUISIANA: A waiver that would allow use of 9.0lb. RVP was approved on 28 August. LDEQ thanked EPA, R6 and Department of Energy for the quick turnaround and assistance this week. On September 1, 2017 the Governor of Louisiana requested a No Action Assurance from the EPA Region 6 Acting Regional Administrator. According to Louisiana this in order to facilitate the delivery of fuels to areas of Louisiana and Texas impacted by the hurricane, the Louisiana Department of Environmental Quality (LDEQ), on behalf of Governor John Bel Edwards, respectfully requests that EPA provide a "no action assurance" to allow for the use of tank trucks, railcars, and marine tank vessels that may not have the requisite vapor tightness documentation necessary to load gasoline and other petroleum products at Louisiana facilities.

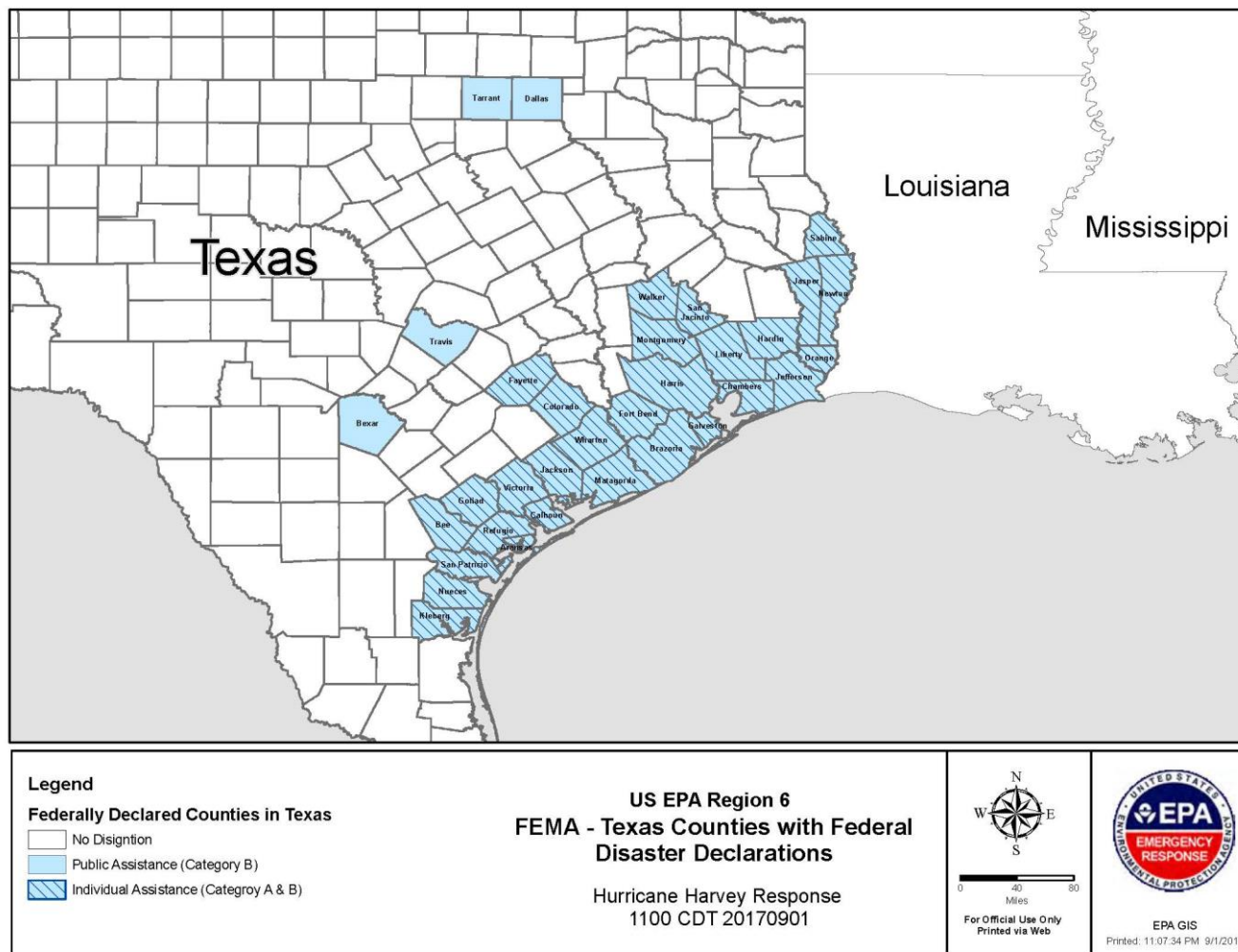
3. OKLAHOMA: A statewide low Reid Vapor Pressure (RVP) fuel waiver request was submitted on August 28, 2017, and amended their request on August 30 expanding 11.5 RVP waiver nationwide.
4. ARKANSAS: The State is drafting a waiver request to temporarily waive the requirement for low 9.0lb RVP fuel.
5. On August 30<sup>th</sup>, EPA issue a waiver for the temporary use of 11.5 PSI RVP gasoline in the following states: Alabama, Georgia, Kentucky, Maryland, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, Texas, Louisiana, Florida and the District of Columbia. For Texas and Louisiana, it expands the waiver coverage area from the earlier waiver granted.
6. EPA issued a waiver for 38 states and the District of Columbia of all low volatility gasoline requirements in any State Implementation Plan that applies in the designated states. This waiver now includes all five Region 6 states: Arkansas, Louisiana, New Mexico, Oklahoma and Texas. The waiver for El Paso, Texas goes until September 16, 2017 due to their State Implementation Plan requirements.

## SUPERFUND NPL SITES



No NPL site status updates are expected until Tuesday September 4, 2017.

## FEMA – TEXAS COUNTIES WITH DISASTER DECLARATIONS



Superfund Sites within Federally Declared Counties				9/2/2017
Status Summary				
TEXAS				
SITE NAME	Inspected	Offsite Release	Onsite Damage	
BRINE SERVICE CO.	8/30/17	No	No	
FALCON REFINERY	8/30/17	No	No	
ALCOA (Point Comfort) / LAVACA BAY				
BAILEY WASTE DISPOSAL				
BRIO REFINING INC.				
CONROE CREOSOTING COMPANY				
CRYSTAL CHEMICAL CO.				
DIXIE OIL PROCESSORS INC.				
FRENCH, LTD.				
GENEVA INDUSTRIES / FUHRMANN ENERGY				
GULFCO MARINE MAINTENANCE				
HARRIS (FARLEY STREET)				
HART CREOSOTING				
HIGHLANDS ACID PIT				
JASPER CREOSOTING				
JONES ROAD GROUNDWATER PLUME				
MALONE SERVICES COMPANY				
MANY DIVERSIFIED INTERESTS, INC				
MOTCO, INC.				
NORTH CAVALCADE STREET				
PALMER BARGE LINE				
PATRICK BAYOU				
PETRO-CHEMICAL SYSTEMS, INC. (Turtle Bayou)				
SAN JACINTO RIVER WASTE PITS				
SIKES DISPOSAL PITS				
SOL LYNN / INDUSTRIAL TRANSFORMERS				
SOUTH CAVALCADE STREET				
STAR LAKE CANAL				
STATE MARINE OF PORT ARTHUR				
TEX-TIN CORP.				
TRIANGLE CHEMICAL COMPANY				
UNITED CREOSOTING CO.				
US OIL RECOVERY				

Superfund Sites within Federally Declared Counties				9/2/2017
Status Summary				
LOUISIANA				
AMERICAN CREOSOTE DERIDDER				
D.L. MUD, INC.				
EVR-WOOD TREATING/EVANGELINE REFINING COMPANY				
GULF COAST VACUUM SERVICES				
GULF STATE UTILITIES (North Ryan Street)				
MALLARD BAY LANDING BULK PLANT				
SBA SHIPYARD				
PAB OIL & CHEMICAL SERVICE				



## PHOTOS



Command and General Staff Meeting



EPA Command Post – Corpus Christi